

## **ABSTRACT**

The present invention relates to an improved insulated conductor with a low dielectric constant and reduced materials costs. The conductor (12) extends along a longitudinal axis and an insulation (14, 14<1>) surrounds the conductor (12). At least one channel (16, 16<1>) in the insulation (14, 14<1>) extends generally along the longitudinal axis to form an insulated conductor. Apparatuses and methods of manufacturing the improved insulated conductors are also disclosed.